Pest Conditions Data Base
1994

USDA Forest Service
Morgantown, WV

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Northeastern Area
State and Private Forestry
Pest Conditions Report - 1994

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
air pollutants								
Healthy								
ME	Eastern spruce/fir	white ash	white pine	black cherry	0	0	0	Air pollution damage was minor in Maine during 1994. A few symptoms were detected on Milkweed (Aesclepias syriaca) but no symptoms were noted on forest species.
			Subtotal for Healthy :		0	0	0	
			Subtotal for air pollutants :		0	0	0	

State	ForestType	Hosts			Acres	Trees	Trap Catch	Comments
Anomola beetle								
Defoliation								
MI	Plantation	red pine	NA	NA	192	0	0	Adult feeding was observed on 4- to 10-year-old plantation red pine .
		Subtotal for Defoliation :			192	0	0	
		Subtotal for Anomola beetle :			192	0	0	

State	Forest Type	Hosts			Acres	Trees	Tr Pa C ath	Comments
anthracnose *Gnomonia spp.*								
Defoliation								
VT	Maple/beech/birch	sugar maple	NA	NA	70	0	0	
		Subtotal for Defoliation :			70	0	0	
Dieback/decline								
PA	Maple/beech/birch	sugar maple	NA	NA	1450	0	0	
		Subtotal for Dieback/decline :			1450	0	0	
Discoloration								
IO	Urban/ornamental	green ash	norway maple	sycamore	0	160	0	Individual county acres not determined. Webster County assigned 160 trees of damage.
		Subtotal for Discoloration :			0	160	0	
		Subtotal for anthracnose :			1520	160	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
aphid *Aphididae*								
Dieback/decline								
IO	Maple/beech/birch	sugar maple	basswood	bur oak	1700	0	0	Individual county acres not determined. Kossuth County assigned 1700 acres of damage.
		Subtotal for Dieback/decline :			1700	0	0	
scoloration								
IO	Urban/ornamental	norway maple	sugar maple	silver maple	0	560	0	Individual county acres not determined. Winneshiek County assigned 560 trees of damage.
		Subtotal for Discoloration :			0	560	0	
		Subtotal for aphid :			1700	560	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
arborvitae leaf miner							
Discoloration							
VT	Eastern spruce/fir	northern white cedar	NA	NA	0	0	0	Mostly light damage. Some heavy damage in Orange county. Down from 1993.
			Subtotal for Discoloration :		0	0	0	
			Subtotal for arborvitae leaf miner :		0	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
arborvitae leafminer							
Argyresthia thuiella							
Damaged foliage or shoots							
ME	Spruce/fir	northern white cedar	NA	NA	0	0	0
Subtotal for Damaged foliage or shoots :					0	0	0
Subtotal for arborvitae leafminer :					0	0	0

State	Forest Type	----------Hosts--------- ----			Acres	Trees	Trap Catch	Comments
ash anthracnose *Discula fraxinea*								
Defoliation								
OH	Elm/ash/red maple	white ash	NA	NA	0	0	0	reported by Hodgson
OH	Urban/ornamental	green ash	white ash	NA	0	27	0	reported by Serbonich, Fair, Hodgson & Bunker
			Subtotal for Defoliation :		0	27	0	
			Subtotal for ash anthracnose :		0	27	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
ash decline/yellows								
Defoliation								
PA	Elm/ash/red maple	white ash	NA	NA	102	0	0	
		Subtotal for Defoliation :			102	0	0	
Dieback/Decline								
OH	Elm/ash/red maple	white ash	green ash	NA	8	0	0	reported by Wilthew, Hodgson & Schatz
		Subtotal for Dieback/Decline :			8	0	0	
Mortality								
OH	Oak/hickory	white ash	green ash	NA	0	0	0	reported by Siam
		Subtotal for Mortality :			0	0	0	
		Subtotal for ash decline/yellows :			110	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
ash plant bug							
Tropidosteptes amoenus							
Discoloration							
IO	Urban/ornamental	green ash	NA	NA	0	370	0	Individual county acres not determined. Webster County assigned 370 trees of damage.
		Subtotal for Discoloration :			0	370	0	
		Subtotal for ash plant bug :			0	370	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
ash yellows								
Dieback/decline								
IO	Urban/ornamental	green ash	white ash	NA	0	130	0	Individual county acres not determined. Cerro Gordo assigned 130 trees of damage.
IO	Elm/ash/red maple	white ash	green ash	NA	180	0	0	Individual county acreage not determined. Damage of 180 acres assigned to Wright County.
PA	Oak/hickory	white ash	NA	NA	50	0	0	
		Subtotal for Dieback/decline :			230	130	0	
		Subtotal for ash yellows :			230	130	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
ash yellows mlo							
Dieback/Decline							
WV	Oak/hickory	white ash	NA	0	448	0	All sites confirmed by Dr. Wayne Sinclair using DAPI flourescence microscopy.
Subtotal for Dieback/Decline :				0	448	0	
Subtotal for ash yellows mlo :				0	448	0	

Northeastern Area
State and Private Forestry
Pest Conditions Report - 1994

State	For est Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
Asian gypsy moth *Lymantria dispar*							
Healthy							
CT	Oah/hickory	oaks	NA	NA	0	0	0
		Subtotal for Healthy :			0	0	0
		Subtotal for Asian gypsy moth :			0	0	0

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
Aspen defoliator complex							
Defoliation							
MN	Aspen/birch	Aspen	NA	NA	600200	0	0	Continued presence with increased acreage and severity. This particular complex is made up of Omnivorous leafroller (Archips purpurana), large aspen tortrix (Choristeneura conflictana), oblique banded leafroller (C. rosaceana), Dusky leafroller (Orthotania undulana), spotted aspen leafroller (Pseudosciaphilia duplex), Agonoterix argillacea, and Epinotia criddleana).
			Subtotal for Defoliation :		600200	0	0	
			Subtotal for Aspen defoliator complex :		600200	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
aspen leafroller							
Pseudexentera oregonana							
Defoliation							
ME	Aspen/birch	aspen	NA	NA	70000	0	0	Populations and damage covered roughly the same areas as in 1993 but numbers and intensity dropped noticeably.
Subtotal for Defoliation :					70000	0	0	
Subtotal for aspen leafroller :					70000	0	0	

State	Forest Type	Hosts	Acres	Trees	Trap Catch	Comments

bagworm moth

Psychidae

Defoliation

IL	Urban/ornamental	juniper	white pine	spruces	2	0	0	Populations tend to be on the increase in the southern half of Illinois.

Subtotal for Defoliation : 2 0 0

Subtotal for bagworm moth : 2 0 0

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments

balsam fir sawfly

Neodiprion abietis

Defoliation

ME	Eastern spruce/fir	balsam fir	NA	NA	100	0	0	Very low and endemic populations statewide except for extreme southern Washington County where previously high populations have continued to decline but which still remain light (above endemic).
				Subtotal for Defoliation :	100	0	0	
				Subtotal for balsam fir sawfly :	100	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments

balsam gall midge

Paradiplosis tumifex

Damaged foliage or shoots

ME	Spruce/fir	balsam fir	NA	NA	0	0	0
		Subtotal for Damaged foliage or shoots :			0	0	0
		Subtotal for balsam gall midge :			0	0	0

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
balsam shootboring sawfly *Pleroneura brunneicornis*								
Damaged foliage or shoots								
ME	Eastern spruce/fir	balsam fir	fraser fir	NA	400	0	0	Populations extremely high in some plantations. Woodland populations higher than usual but not extreme. Although most growers of Christmas trees complained of at least some damage in 1994, the heaviest damage seems to be in southern Maine especially in areas listed. So called "double balsam" seems to be more heavily affected in many plantations.
Subtotal for Damaged foliage or shoots :					400	0	0	
Dieback/Decline								
VT	Plantation	balsam fir	fraser fir	NA	662	0	0	Acreage affected in northern Vermont survey double damage in 1993. Damage more severe to fraser fir (average of 10% of shoots killed per plantation, maximum of 30% per plantation) than balsam (average of 6%, maximum of 14%). Least damage on balsam fir from northern provenances. Heaviest damage to plantations near natural balsam fir.
Subtotal for Dieback/Decline :					662	0	0	
Subtotal for balsam shootboring sawfly :					1062	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
balsam twig aphid								
Mindarus abietinus								
Damaged foliage or shoots								
ME	Spruce/fir	balsam fir	NA	NA	0	0	0	
Subtotal for Damaged foliage or shoots :					0	0	0	
liage injury								
VT	Plantation	balsam fir	fraser fir	NA	260	0	0	Damage down from 1993. Most damage light. Moderate damage more common in plantations distant from natural balsam fir.
Subtotal for foliage injury :					260	0	0	
Subtotal for balsam twig aphid :					260	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
balsam woolly adelgid							
Adelges piceae							
Damaged foliage or shoots							
ME	Eastern spruce/fir	balsam fir	NA	NA	10	0	0	Populations of the trunk phase remain low and spotty across central Maine. In coastal Washington and Hancock Counties damage to woodland balsam fir is still very visible and some mortality evident. Two reports of damage to high value Christmas tree and ornamental stock were reported in 1994 as listed.
Subtotal for Damaged foliage or shoots :					10	0	0	
mortality							
WV	Eastern spruce/fir	balsam fir	NA	NA	4	0	0	Third year of survey. Have 26 stands to check in Tucker, Randolph and Pocahontas Counties each year. Found 4 previously uninfested stands as infested this year and are reported below. Other sites listed as infested are spreading into adjacent areas. 15 stands are now listed as infested and 11 are clean.
Subtotal for mortality :					4	0	0	
Subtotal for balsam woolly adelgid :					14	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
beech bark disease								
Nectria coccinea								
Dieback/Decline								
VT	Maple/beech/birch	American beech	NA	NA	780	0	0	Levels of scale and Nectria stable in monitoring plots, although tree condition has declined somewhat.
		Subtotal for Dieback/Decline :			780	0	0	
Mortality								
WV	Maple/beech/birch	beech	NA	NA	606685	0	0	Area encompassed by killing front of beech bark disease. Beech trees comprise only a small percentage of total forest stand.
		Subtotal for Mortality :			606685	0	0	
		Subtotal for beech bark disease :			607465	0	0	

State	Forest Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
beech blight aphid							
Present but no Damage							
OH	Oak/hickory	America n beech	NA	NA	0	1	0	Reported by Elze
		Subtotal for Present but no Damage :			0	1	0	
		Subtotal for beech blight aphid :			0	1	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
beech scale								
Cryptococcus fagisuga								
Dieback/decline								
PA	Maple/beech/birch	beech	NA	NA	5	0	0	
		Subtotal for Dieback/decline :			**5**	**0**	**0**	
Present but no Damage								
WV	Maple/beech/birch	beech	NA	NA	779365	0	0	Area encompassed by leading edge of scale infestation. Beech is only a small percentage of the forest (9% of total stem trees).
		Subtotal for Present but no Damage :			**779365**	**0**	**0**	
		Subtotal for beech scale :			**779370**	**0**	**0**	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
big game (deer, elk, moose)								
Other								
IO	Plantation	conifers	oaks	NA	550	0	0	Individual county acres not determined. Worth County assigned 550 acres of damage.
			Subtotal for Other :		550	0	0	
			Subtotal for big game (deer, elk, moose) :		550	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
birch anthracnose							
Discoloration							
NY	Urban/ornamental	gray birch	NA	NA	0	0	0
		Subtotal for Discoloration :			**0**	**0**	**0**
		Subtotal for birch anthracnose :			**0**	**0**	**0**

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
birch casebearer								
Coleophora serratella								
Defoliation								
ME	Maple/beech/birch	white birch	NA	NA	10000	0	0	Populations and damage down noticeably from 1993 levels. Most of the defoliation in 1994 was on roadside trees, trees growing along open areas or on coastal peninsulas. This insect caused severe stress in birch stands defoliated from 1983-1985. A number of these stands have been monitored annually to monitor any mortality and/or decline. Currently trees have recovered and stand change is static.
				Subtotal for Defoliation :	10000	0	0	
				Subtotal for birch casebearer :	10000	0	0	

State	Forest Type	Hosts		Acres	Tree	Trap Catch	Comments
birch leaf miner/skeletonizer							
Defoliation							
VT	Aspen/birch	white birch	NA	NA	6930	0	0	Mostly at high elevations. Decreased from 1993.
			Subtotal for Defoliation :		6930	0	0	
			Subtotal for birch leaf miner/skeletonizer :		6930	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
birch leafminer								
Fenusa pusilla								
foliation								
ME	Aspen/birch	white birch	yellow birch	NA	0	0	0	Populations of the birch leafminer, Messa nana occurred across the state but were generally down noticeably in all areas except for coastal portions of the counties listed below. Birch over roughly 25,000 acres exhibited moderate to heavy defoliation.
				Subtotal for Defoliation :	0	0	0	
				Subtotal for birch leafminer :	0	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
birch skeletonizer								
Defoliation								
ME	Aspen birch	white birch	gray birch	yellow birch	1500000	0	0	Populations and browning could be seen wherever birch grow within the state but numbers and severity seemed to be down.
			Subtotal for Defoliation :		1500000	0	0	
			Subtotal for birch skeletonizer :		1500000	0	0	

State	Forest Type	Hosts	Acres	Trees	Trap Catch	Comments
black army cutworm *Actebia fennica*						
Healthy						
ME	Plantation	black spruce NA NA	0	0	0	No reports of damage were received in 1994.
		Subtotal for Healthy :	0	0	0	
		Subtotal for black army cutworm :	0	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
botryosphaeria canker								
Botryosphaeria ribis								
Dieback/Decline								
NY	Oak/hickory	red oak	NA	NA	0	0	0	Canker on oak twigs observed during survey for fall cankerworm. Canker resembled one associated with dieback of black oak twigs on Long Island.
NY	Urban/ornamental	black oak	NA	NA	0	0	0	
		Subtotal for Dieback/Decline :			0	0	0	
		Subtotal for botryosphaeria canker :			0	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
brown ash decline							
Dieback/Decline							
ME	Elm/ash/red maple	black ash	NA	120000	0	0	A serious decline in brown ash in Maine is still extremely appearent but conditions stabilized somewhat in 1994. Trees in the MFS study plots generally had larger and healthier leaves in 1994 than in previous years. Overall crown condition has not improved as yet but may begin to improve if the appearent improvement in foliage seen in 1994 persists. □The MFS has published a report on the current condition of brown ash in Maine (Forest Health Monitoring Evaluation: Brown Ash (Fraxinus nigra) in Maine, A Survey of Occurrence and Health).
		Subtotal for Dieback/Decline :		120000	0	0	
		Subtotal for brown ash decline :		120000	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
browntail moth *Euproctis chrysorrhoea*								
Defoliation								
MA	Oak/pine	beach plum	NA	NA	169	0	0	All acreage figures calculated by GIS
ME	Oak/pine	red oak	apple	cherry	0	0	0	The browntail moth populations are spreading and intensifying in Casco Bay. Twenty three islands are now known to be infested and several locations on the mainland have established populations.
		Subtotal for Defoliation :			169	0	0	
		Subtotal for browntail moth :			169	0	0	

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
Bruce spanworm *Operophtera bruceata*								
Defoliation								
ME	Maple/beech/birch	sugar maple	beech	NA	10000	0	0	Populations were at roughly 1993 levels. Most of the heavy defoliation was on understory sugar maple and beech which were overtopped by sugar maple. Defoliation of overstory trees was trace to light making aerial surveys next to impossible.
VT	Maple/beech/birch	sugar maple	NA	NA	0	0	0	Occasional moderate defoliation of sugarbushes or forest stands, but no damage detected during aerial surveys. Moths very common in the fall.
				Subtotal for Defoliation :	10000	0	0	
				Subtotal for Bruce spanworm :	10000	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
butternut canker *Sirococcus clavigignenti-jugl.*								
Dieback/Decline								
ME	Maple/beech/birch	butternut	NA	NA	0	36	0	Butternut canker is widespread in Maine, having been found thus far in Androscoggin, Cumberland, Franklin, Kennebec, Knox, Lincoln, Oxford, Piscataquis, Sagadahoc, Somerset, Waldo and York Counties.
NY	Elm/ash/red maple	butternut	NA	NA	1	0	0	Survey purpose is to locate heathy and diseased butternut growing near one another.
PA	Oak/hickory	butternut	NA	NA	41	0	0	
		Subtotal for Dieback/Decline :			42	36	0	
Healthy								
NY	Maple/beech/birch	butternut	NA	NA	0	19	0	Search conducted for healthy and diseased butternut growing near one another. Scion wood may be collected next spring for grafting.
		Subtotal for Healthy :			0	19	0	
Mortality								
OH	Maple/beech/birch	butternut	NA	NA	0	5	0	Reported by Wilthew
		Subtotal for Mortality :			0	5	0	
Stem Defect								
WI	Oak/hickory	butternut	NA	NA	0	0	0	Efforts on this disease have centered around public information and working with landowners to collect seed and plant butternut trees on the best sites. Twenty-five bushels of seed were collected by landowners and have been sown at the Hayward state DNR nursery. A study was initiated on the Menominee Indian Reservation to determine the survival potential of planted butternut on 2 habitat sites in different size forest openings. The counties listed below represent the known distribution of butternut canker. Butternut canker also found in northern hardwoods.
		Subtotal for Stem Defect :			0	0	0	
		Subtotal for butternut canker :			42	60	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
cedar apple rust							
Gymnosporangium juniperi-virginianae							
Dieback/Decline							
NY	Urban/ornamental	eastern redcedar	NA	NA	1	0	0
		Subtotal for Dieback/Decline :			1	0	0
		Subtotal for cedar apple rust :			1	0	0

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
cenangium tip dieback							
Dieback/Decline							
WV	Oak/pine	white pine	NA	NA	70000	0	0	Widespread damage to white pine in Greenbrier and Pocahontas Counties. Heaviest branch mortality in Pocahontas County near Seneca State Forest.
		Subtotal for Dieback/Decline :			70000	0	0	
		Subtotal for cenangium tip dieback :			70000	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
cercospora blight of juniper							
Cercospora sequoiae							
Mortality							
OH	Maple/beech/birch	eastern redcedar	NA	NA	2	0	0	reported by Bunker
			Subtotal for Mortality :		2	0	0	
			Subtotal for cercospora blight of juniper :		2	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
cherry scallop shell moth *Hydria prunivorata*								
Defoliation								
MI	Elm/ash/red maple	black cherry	NA	NA	350	0	0	Extensive CSSM defoliation was also observed in pin cherry across the northcentral Lower Peninsula in the oak/pine type and in the aspen/birch type. This was primarily an aesthetic problem that triggered numerous call from private landowners. People were encouraged to "wait out" the defoliation and to avoid the use of pesticides. Cherry scallop shell moth (CSSM) defoliation was observed in isolated stands in Barry Co. in the southwestern Lower Peninsula. Affected trees were 80-100% defoliated. Traditionally, CSSM outbreaks peak in a single season and decline significantly in the following season. The black cherry in this stand is expected to recover fully.
MI	Oak/pine	pin cherry	NA	NA	430	0	0	Cherry scallop shell moth (CSSM) was observed throughout the range of pin cherry in the northcentral Lower Peninsula. Pin cherry is a common component in the oak/pine and aspen/birch forest types, and is a common part of the landscape on private lands in rural northern Michigan. Cherry scallop shell moth defoliation was heavy, ranging from 50 to 100% on affected trees. CSSM also defoliated the black cherry component in a southern Michigan hardwood stand. Severity ranged between 75-100%.
NY	Maple/beech/birch	black cherry	NA	NA	23024	0	0	
PA	Maple/beech/birch	black cherry	NA	NA	289216	0	0	
WI	Oak/hickory	black cherry	pin cherry	NA	6400	0	0	Cherry scallop shell moth also found in northern hardwoods.
WV	Maple/beech/birch	black cherry	NA	NA	3098			This was the second year for cssm defoliation in Hardy and Randolph Counties and the first year that it was reported in Pocahontas County. Cssm defoliation was mapped during gypsy moth aerial defoliation surveys flown in mid - late July. Ground checks confirmed cssm defoliation. In early June, residents of Randolph County reported large numbers of moths around Alpena and Wymer. (Moths confirmed as cssm). We issued a news release alerting timber owners that widespread defoliation might result on Middle Mountain.
				Subtotal for Defoliation :	322518	0	0	
				Subtotal for cherry scallop shell moth :	322518	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments

Chestnut blight

Cryphonectria parasitica

Mortality

MI	Elm/ash/red maple	American elm	NA	NA	15	0	0	This stand of American chestnut was blight-free until 1993. Michigan Department of Natural Resources is cooperating with Michigan State University to introduce the hypovirulent strain of the fungus to the stand. At this time, 22 of the 28 strains of the fungus have been sucessfully converted to the hypovirulent strain. During the spring of 1995, work will begin to compare the efficiency of inoculation methods among the different strains.
				Subtotal for Mortality :	15	0	0	
				Subtotal for Chestnut blight :	15	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
Colletotrichum sp.							
Dieback/decline							
PA	Maple/beech/birch	sugar maple	NA	1000	0	0	
		Subtotal for Dieback/decline :		1000	0	0	
		Subtotal for Colletotrichum sp. :		1000	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
complex								
Dieback/Decline								
ME	Maple/beech/birch	American beech	red maple	white birch	180000	0	0	Hardwood decline apparently began several years ago. It was first mapped as heavy dieback in 1992 and was much more conspicuous in 1994. Affected areas increased about 40% over 1993. Affected stands are primarily on hillsides and hedges. American beech was the species most severely affected along with red maple, sugar maple, yellow birch and white birch.
VT	Maple/beech/birch	sugar maple	American beech	white birch	20040	0	0	Shallow sites, beech bark disease, birch defoliation, and heavy seed contributed to the declines. Growing conditions generally good for trees in 1994.
VT	Elm/ash/red maple	white ash	NA	NA	1670	0	0	Dieback mostly from heavy seed production in 1993 and ash yellows.
VT	Eastern spruce/fir	red spruce	balsam fir	NA	2610	0	0	Mostly at high elevations
		Subtotal for Dieback/Decline :			204320	0	0	
		Subtotal for complex :			204320	0	0	

State	Forest Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
Corythucha pruni							
Defoliation							
PA	Maple/beech/birch	cherry	NA	NA	4000	0	0
		Subtotal for Defoliation :			4000	0	0
		Subtotal for Corythucha pruni :			4000	0	0

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
cynipid wasp leaf gall							
Defoliation							
NY	Oak/pine	scrub oak	NA	NA	0	2	0
		Subtotal for Defoliation :			0	2	0
		Subtotal for cynipid wasp leaf gall :			0	2	0

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
cytospora canker							
Cytospora spp.							
Damaged foliage or shoots							
IO	Windbreaks	spruces	NA	NA	0	580	0	Individual county acreages not determined. Sioux County assigned 580 trees.
Subtotal for Damaged foliage or shoots :					0	580	0	
Subtotal for cytospora canker :					0	580	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
dagger moth							
Defoliation							
PA	Oak/hickory	oaks	NA	NA	500	0	0
		Subtotal for Defoliation :			500	0	0
		Subtotal for dagger moth :			500	0	0

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
diplodia blight								
Sphaeropsis sapinea								
Dieback/decline								
IO	White/red/jack pine	red pine	ponderosa pine	Austrial pine	686	0	0	Four counties reported diplodia blight. Acreage of 686 was assigned to Lee County.
IO	Urban/ornamental	austrian pine	ponderosa pine	red pine	0	440	0	Individual county acres not determined. Clay County assigned 440 trees of damage.
Subtotal for Dieback/decline :					686	440	0	
Subtotal for diplodia blight :					686	440	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
dogwood anthracnose								
Discula sp.								
Defoliation								
NY	Urban/ornamental	dogwood	NA	NA	0	0	0	
		Subtotal for Defoliation :			**0**	**0**	**0**	
Dieback/Decline								
NY	Oak/hickory	flowering dogwood	NA	NA	0	56	0	Survey to collect twigs of flowering dogwood showing symptoms of dogwood anthracnose disease. Dogwoods reported to Mike Birmingham by individuals familar with my detection survey.
VT	Oak/hickory	flowering dogwood	NA	NA	100	0	0	Confirmed in three remaining sites in Windham County where flowering dogwood is known to occur naturally. Dieback on sample trees ranged from 30-100%.
		Subtotal for Dieback/Decline :			**100**	**56**	**0**	
Mortality								
OH	Urban/ornamental	dogwood	NA	NA	0	1	0	John Nighton, USFS
OH	Oak/hickory	dogwood	NA	NA	15		0	Lake Hope State Park
		Subtotal for Mortality :			**15**	**1**	**0**	
		Subtotal for dogwood anthracnose :			**115**	**57**	**0**	

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State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
drought							
Mortality							
NY	Plantation	red pine	NA	NA	1	20	0	Request by Pete Gregory assistant park manager for Saratoga Park Region to inspect red pine at Thacher State Park.
			Subtotal for Mortality :		1	20	0	
			Subtotal for drought :		1	20	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
Dutch elm disease								
Ophiostoma ulmi, Ophiostoma novo-ulmi								
Dieback/Decline								
ME	Urban/ornamental	American elm	NA	NA	0	0	0	Symptoms were quite conspicuous during the summer of 1994. A more aggressive strain of Ophiostoma is apparently completing its sweep across the state killing elms which survived the original infective "front" in the fifties.
Subtotal for Dieback/Decline :					0	0	0	
Mortality								
IO	Elm/ash/red maple	American elm	slippery elm	Siberian elm	1860	0	0	Individual county acreages not determined--1,860 acres assigned to Worth County.
IO	Urban/ornamental	American elm	red/slippery elm	siberian elm	0	5100	0	Individual county acres not determined. Webster County assigned 5100 trees of damage.
Subtotal for Mortality :					1860	5100	0	
Subtotal for Dutch elm disease :					1860	5100	0	

State	Forest Type	Host		Acres	Trees	Trap Catch	Comments
eastern larch beetle *Dendroctonus simplex*							
Present but no Damage							
ME	Spruce/fir	eastern larch	NA	NA	0	0	0	This pest caused heavy mortality in the 1980's but has returned to endemic levels throughout most of the state.
Subtotal for Present but no Damage :					0	0	0	
Subtotal for eastern larch beetle :					0	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
eastern tent caterpillar								
Malacosoma americanum								
Defoliation								
OH	Oak/hickory	black cherry	NA	NA	5	0	0	reported by Serbonich, Bower & Wilthew
PA	Urban/ornamental	cherry	NA	NA	0	3000	0	
		Subtotal for Defoliation :			**5**	**3000**	**0**	
Dieback/Decline								
NY	Urban/ornamental	hawthorn	NA	NA	0	0	0	
		Subtotal for Dieback/Decline :			**0**	**0**	**0**	
Present but no Damage								
IL	Urban/ornamental	black cherry	crab apple	NA	0	0	0	Populations are lower than in 1993.
		Subtotal for Present but no Damage :			**0**	**0**	**0**	
		Subtotal for eastern tent caterpillar :			**5**	**3000**	**0**	

State	Forest Type	----------Hosts----- --------		Acres	Trees	Trap Catch	Comments
elm leaf beetle							
Pyrrhalta luteola							
Defoliation							
OH	Urban/ornamental	elms	NA	0	8	0	
		Subtotal for Defoliation :		0	8	0	
		Subtotal for elm leaf beetle :		0	8	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
elm spanworm								
Ennomos subsignaris								
Defoliation								
NY	Maple/beech/birch	red maple	American beech	black birch	465000	0	0	
PA	Maple/beech/birch	American beech	sugar maple	red maple	1612978	0	0	
		Subtotal for Defoliation :			**2077978**	**0**	**0**	
Present but no Damage								
NY	Elm/ash/red maple	black cherry	white ash	aspen	0	0	0	Survey for elm spanworm eggs to determine density and potential for defoliation in 1994.
		Subtotal for Present but no Damage :			**0**	**0**	**0**	
		Subtotal for elm spanworm :			**2077978**	**0**	**0**	

State	Forest Type	----------Hosts----------			Acr es	T rees	Trap Catch	Comments
elm yellows mlo								
Discoloration								
WV	Oak/hickory	American elm	NA	NA	0	12	0	Scattered elms that had developed yellows symptoms were noted throughout Jefferson County. A cluster of 12 infected trees were observed during defoliation flights for gypsy moth at Middleway.
				Subtotal for Discoloration :	0	12	0	
				Subtotal for elm yellows mlo :	0	12	0	

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
Ennomos subsignaria								
Defoliation								
PA	Maple/beech/birch	maples	NA	NA	0	0	0	
		Subtotal for Defoliation :			0	0	0	
		Subtotal for Ennomos subsignaria :			0	0	0	

State	Fores Type	----------Hosts----------		Acres	T ree	Trap Catch	Comments
Eriocampa juglandis							
Defoliation							
PA	Urban/ornamental	black walnut	NA	NA	0	4	0
		Subtotal for Defoliation :			0	4	0
		Subtotal for Eriocampa juglandis :			0	4	0

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
Eucosma gloriola							
Defoliation							
PA	Plantation	red pine	NA	NA	0	2	0
		Subtotal for Defoliation :			0	2	0
		Subtotal for Eucosma gloriola :			0	2	0

State	Forest Type	Host s		Acres	Trees	Trap Catch	Comments
European hornet							
Other							
IL	Urban/ornamental	lilac	NA	NA	0	0	0	Damage reported is birdling of branches. This is a new state record for this insect. One forester was severely stung when sounding a forest tree.
			Subtotal for Other :		0	0	0	
			Subtotal for European hornet :		0	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
European larch canker							
Lachnellula willkommii							
Canker							
ME	Eastern spruce/fir	larch	NA	0	0	0	This disease apparently did not spread from known areas of infestation during 1994. It remains confined to parts of Washington, Hancock, Waldo, Lincoln and Knox Counties.
Subtotal for Canker :				0	0	0	
Subtotal for European larch canker :				0	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
European pine sawfly								
Neodiprion sertifer								
Defoliation								
IL	Urban/ornamental	Scotch	NA	NA	7	0	0	Infestations are light as compared to 1993
MI	White/red/jack pine	red pine	NA	NA	32	0	0	
OH	Loblolly/shortleaf pine	virginia pine	loblolly pine	shortleaf pine	0	0	0	reported by Serbonich
OH	Urban/ornamental	Scotch pine	NA	NA	0	3	0	
		Subtotal for Defoliation :			39	3	0	
		Subtotal for European pine sawfly :			39	3	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
fall cankerworm *Alsophila pometaria*								
Defoliation								
MD	Oak/hickory	white oak	red oak	NA	319	0	0	
ME	Urban/ornamental	boxelder	NA	NA	0	0	0	Defoliation of boxelder in eastern Aroostook County north of Mars Hill was extremely heavy in 1994. Moths and egg laying was very heavy in the fall indicating potentially heavy defoliation again in 1995.
NY	Maple/beech/birch	white ash	sugar maple	NA	170000	0	0	
NY	Maple/beech/birch	Sugar Maple	Beech	Red Maple	52	0	0	
PA	Oak/hickory	oaks	red maple	NA	5072	0	0	Difficult to separate defoliation caused by gypsy mothand fall cankerworm.
		Subtotal for Defoliation :			**175443**	**0**	**0**	
Present but no Damage								
NY	Elm/ash/red maple	sugar maple	American beech	white ash	0	0	0	Survey to collect fall cankerworm egg masses to determine identity of parasites and rates of parasitism.
		Subtotal for Present but no Damage :			**0**	**0**	**0**	
		Subtotal for fall cankerworm :			**175443**	**0**	**0**	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
fall hemlock looper								
Lambdina fiscellaria								
Present but no Damage								
CT	Oak/hickory	eastern hemlock	NA	NA	0	0	0	A statewide 10-mile grid survey for the fall hemlock looper, Lambdina fiscellaria, was completed during the fall of 1994. Sentry Delta traps with a sticker coated interior were used with Phero Tech Inc. L. fiscellaria pheromone lures. Traps were deployed at 50 locations throughout Connecticut. Two traps were placed at each site, 12 to 15 feet above the ground in a hemlock area of not less than 50 trees. The traps were placed approximately 150 feet apart. The traps were operated for 8 week (the advertised shelf life of the pheromone) beginning during the middle week of August. Hemlock loopers were found at 38 sites. Captured moths ranged form 0 to 52 per trap with an average of 7.19 per trap. Hemlock looper moths were distributed throughout Connecticut, except for the southwest corner and a section of the Connecticut Valley where development and agriculture have left few hemlock stands.
VT	White/red/jack pine	eastern hemlock	NA	NA	0	0	118	Moth catches in pheromone traps down from 1993.
Subtotal for Present but no Damage :					0	0	118	
Subtotal for fall hemlock looper :					0	0	118	

fall webworm

Hyphantria cunea

Defoliation

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
ME	Elm/ash/red maple	white ash	beech	white birch	0	0	0	Variable but generally down in numbers to the south and up slightly to the north.
NY	Oak/hickory	Hardwoods	NA	NA	0	0	0	
PA	Urban/ornamental	white birch	NA	NA	0	1	0	
PA	Maple/beech/birch	oaks	NA	NA	12491	0	0	
WV	Oak/hickory	other hardwoods	NA	NA	341	0	0	Heavy throughout Monroe, Greenbrier and Mercer Counties. Aerial defoliation surveys for gypsy moth mapped 341 acres in Randolph County.
				Subtotal for Defoliation :	12832	1	0	
				Subtotal for fall webworm :	12832	1	0	

State	Forest Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
fire-colored beetles							
Other							
PA	Oak/hickory	oaks	NA	NA	10	150	0
		Subtotal for Other :			10	150	0
		Subtotal for fire-colored beetles :			10	150	0

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
flea weevil							
Rhynchaenus rufipes							
Defoliation							
OH	Oak/hickory	eastern hophornbeam	NA	NA	0	10	0
		Subtotal for Defoliation :			0	10	0
		Subtotal for flea weevil :			0	10	0

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
flooding/high water								
Dieback/Decline								
VT	Elm/ash/red maple	maples	NA	NA	9700	0	0	Acreage similar to 1993
	Subtotal for Dieback/Decline :				9700	0	0	
Mortality								
IO	Urban/ornamental	hackberry	linden	norway maple	0	780	0	Individual county acres not determined. Clay County assigned 780 trees of damage.
IO	Elm/ash/red maple	hackberry	black walnut	silver maple	11000	0	0	Individual county acreages not determined--11,000 acres assigned to Clay County.
PA	Oak/pine	yellow-poplar	NA	NA	6	0	0	
	Subtotal for Mortality :				11006	780	0	
	Subtotal for flooding/high water :				20706	780	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
forest tent caterpillar *Malacosoma disstria*								
Defoliation								
MD	Oak/gum/cypress	oaks	sweetgum	blackgum	1514	0	0	mixture of FTC and gypsy moth
MD	Oak/gum/cypress	blackgum	sweetgum	white oak	2946	0	0	
NY	Maple/beech/birch	Sugar maple	White ash	Red oak	440994	0	0	
OH	Oak/hickory	white oak	red oak	NA	0	5	0	reported by Wilthew & Jackson
PA	Maple/beech/birch	maples	NA	NA	156913	0	0	
		Subtotal for Defoliation :			602367	5	0	
Present but no damage								
ME	Aspen/birch	trembling aspen	NA	NA	0	0	0	No defoliation reported in 1994 although moths seemed to be more abundant.
NY	Elm/ash/red maple	sugar maple	quaking aspen	elms	0	0	0	Survey was conducted for fall cankerworm. However, forest tent caterpillars observed on sunny side of bark. Inspection for egg clusters of forest tent conducted to determine the population density and potential for defoliation in 1994.
VT	Maple/beech/birch	sugar maple	NA	NA	0	0	0	Few larvae and no defoliation observed. Very low catches in pheromone traps, but increased numbers of moths in light traps over the past 3 years.
		Subtotal for Present but no damage :			0	0	0	
		Subtotal for forest tent caterpillar :			602367	5	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
frost								
Damaged foliage or shoots								
ME	Plantation	balsam fir	NA	NA	0	0	0	Frost early in the morning of May 28, 1994 damaged fir in the usual frost pockets statewide. Damage levels were moderate.
PA	Urban/ornamental	black locust	yellow-poplar	white ash	300	0	0	
	Subtotal for Damaged foliage or shoots :				300	0	0	
Defoliation								
VT	Maple/beech/birch	American beech	sugar maple	NA	740	0	0	
	Subtotal for Defoliation :				740	0	0	
	Subtotal for frost :				1040	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
fungus disease of twigs							
Present but no Damage							
NY	Oak/hickory	red oak	NA	NA	0	1	0	Survey for gall wasps in oaks revealed presence of Botryosphaeria quercuum on twigs of red oak.
Subtotal for Present but no Damage :					0	1	0	
Subtotal for fungus disease of twigs :					0	1	0	

State	For est Ty pe	----------Hosts----------			Acres	Trees	Trap Catch	Comments
GALLMAKER INSECTS								
Dieback/Decline								
NY	Urban/ornamental	pin oak	NA	NA	4	0	0	Survey resulted in identification of horned oak gall on pin oak.
NY	Oak/hickory	black oak	NA	NA	3	0	0	Survey for Callirhytis crypta on black oak.
		Subtotal for Dieback/Decline :			7	0	0	
Mortality								
NY	Urban/ornamental	black oak	NA	NA	3	0	0	Survey for Callirhytis crypta on dead oaks.
		Subtotal for Mortality :			3	0	0	
		Subtotal for GALLMAKER INSECTS :			10	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
greenstriped mapleworm							
Dryocampa rubicunda							
Defoliation							
MI	Urban/ornamental	red maple	NA	NA	1	0	0	Isolated trees near Kincheloe.
		Subtotal for Defoliation :			1	0	0	
		Subtotal for greenstriped mapleworm :			1	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
gypsy moth *Lymantria dispar*								
Defoliation								
DE	Oak/hickory	white oak	northern red oak	NA	60728	0	0	
MA	Oak/hickory	northern red oak	white oak	NA	76698	0	0	All acreage figures calculated by GIS Population expected to decrease
MD	Oak/hickory	white oak	red oak	NA	93147	0	0	
ME	Oak/pine	red oak	NA	NA	1706	0	0	A total of 1,706 acres were defoliated by gypsy moth in 1994, all damage in York County. Overwintering egg mass counts indicate very little damage will occur in 1995.
MI	Oak/pine	aspen	oaks	white birch	97287	0	0	Gypsy moth populations declined dramatically across most of the northern Lower Peninsula in 1994. This was due largely to overwintering egg mass mortality caused by extremely cold temperatures in January and February. Fall eggmass surveys indicate populations remain low, although some egg masses in some areas appear large and healthy.
NH	oak/hickory	red oak	white oak		8110	0	0	The trend for gypsy moth is down. Eggmass per acre in 1994 was about 780 em/acre. (1993 = 514 em/ac). Even though the eggmass per acre count is up, the area containing eggmasses is smaller and more concentrated than in 1993. Eggmass size was slightly under normal at 23mm. Fungus and/or virus killed larvae were found at 90% of defoliated areas. Defoliation was concentrated on oaks.
NJ	Oak/hickory	oaks	NA	NA	17846	0	0	
OH	Oak/hickory	oaks	NA	NA	100	0	0	
PA	Oak/hickory	oaks	red maple	NA	17957	0	0	
RI	Oak/hickory	oaks	NA	NA	430	0	0	
WV	Oak/hickory	oaks	NA	NA	50257	0	0	Aerial defoliation surveys flown after suppression. Maps are already digitized and in Morgantown. Treatment figures available upon request.
		Subtotal for Defoliation :			424266	0	0	
Healthy								
MI	Oak/pine	oaks	NA	NA	0	0	0	
NY	Oak/pine	oaks	NA	NA	0	0	0	
		Subtotal for Healthy :			0	0	0	
Mortality								
MA	Oak/hickory	northern red oak	White oak	NA	2954	0	0	Mortality caused by a combination of Two-lined chestnut borer, shoestring root rot but trees have been weakened by many (2-4) years of defoliation Acreage figures calculated by GIS
		Subtotal for Mortality :			2954	0	0	
Present but no Damage								

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CT	Oak/hickory	oaks	gray birch	aspens (populus)	0	0	0	During the 10 days of July we conducted an aerial survey over the entire state consisting of 1.8 million acres of forest. No defoliation was found. We were requested to do indepth gypsy moth egg mass surveys for 9 towns in 5 different counties. No significant number of egg masses were located and defoliation is not expected to occur. We are currently conducting our statewide gypsy moth egg mass surveys. A statewide 7 mile grid is 102 sites. We use this grid and the number of egg masses to predict whether or not there will be defoliation for the following year. Data will be added when the grid is finished, (usually by mid January)
IL	Oak/hickory	oaks	NA	NA	0	0	4672	A total of 4,672 moths caught in 1994. Numbers are increasing the last 4 years.
MN	Oak/hickory	oaks	NA	NA	0	0	349	Statewide, trapped approximately 50,954,200 acres. Gypsy Moth infested stock was shipped to 200 plus commercial nurseries in May. Detection trapping took a record number, 349 moths in 24 Counties. There are 7 viable breeding populations established due to these introductions. All sites will receive aggressive treatment in spring of 1995.
VT	Oak/hickory	oaks	NA	NA	0	0	0	Populations remain low with no defoliation detected and none expected in 1995. Egg mass counts in 15m diameter burlap banded plots average less than .4 per plot.
WI	Oak/hickory	oaks	NA	NA	0	0	9599	
		Subtotal for Present but no Damage :			0	0	14620	
		Subtotal for gypsy moth :			427220	0	14620	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
hail							
Broken or dead							
IO	Urban/ornamental	green ash	NA	NA	600	0	0
		Subtotal for Broken or dead :			600	0	0
		Subtotal for hail :			600	0	0

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State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
healthy							
Healthy							
NY	Oak/hickory	butternut	NA NA	0	2	0	
		Subtotal for Healthy :		0	2	0	
		Subtotal for healthy :		0	2	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
heavy seed							
Defoliation							
VT	Maple/beech/birch	red maple	American beech	Balsam fir	11110	0	0	Also heavy seed production on spruces, butternut, white pine, yellow birch, and hophornbeam. Very heavy flowering on sugar maple.
			Subtotal for Defoliation :		11110	0	0	
			Subtotal for heavy seed :		11110	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
hemlock looper *Lambdina fiscellaria*								
Defoliation								
ME	White/red/jack pine	eastern hemlock	balsam fir	white spruce	0	0	142	The hemlock looper Lambdina fiscellaria did not cause any mappable defoliation in Maine in 1994 for the first year since 1989. An aerial survey of the infested area was conducted during September but the only looper damage observed was defoliation and mortality from previous seasons. □Egg sampling done in the winter of 1993 - 94 had shown areas of high and severe egg density in eastern Washington County but only moderate densities of larvae were found in the spring and summer. Even these areas of moderate larval numbers were widely scattered. Larval numbers declined rapidly throughout the larval development period and this combined with the initial low numbers resulted in insignificant levels of defoliation. □Hemlock looper moth activity was monitored in 1994 using 12 of the Maine Forest Service light trap system locations. In addition, pheromone traps were deployed at 16 locations spread throughout the infested area. Results of these two surveys were contradictory. The moth catch in light traps declined as they had in 1993 but, moth catch in pheromone traps was up sharply in many locations. The relatively high moth catch in pheromone traps was inconsistent with all other measures of looper population employed in 1994. The increase in moth catch in may have been enhanced by excellent fall weather or the pheromone may have been more potent than past batches. □Most indicators of looper activity suggest that the looper outbreak in Maine is over but because of the unexpected high moth catch in pheromone traps, some egg sampling will be conducted in areas near high trap catch and near areas were larvae were common in 1994.
MI	Maple/beech/birch	hemlock	NA	NA	240	0	0	First year defoliation was very heavy. Scattered mortality likely.
		Subtotal for Defoliation :			240	0	142	
		Subtotal for hemlock looper :			240	0	142	

State	For est type	Hosts	Acres	Trees	Trap Catch	Comments
hemlock looper, fall flying						
Defoliation						
MA	White/red/jack pine	eastern hemlock NA NA	1610	0	0	All defoliation figures calculated by GIS
		Subtotal for Defoliation :	**1610**	**0**	**0**	
		Subtotal for hemlock looper, fall flying :	**1610**	**0**	**0**	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
Hemlock Looper, spring							
Mortality							
MA	White/red/jack pine	eastern hemlock	NA	452	0	0	Acreage figures calculated by GIS
		Subtotal for Mortality :		452	0	0	
		Subtotal for Hemlock Looper, spring :		452	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
hemlock woolly adelgid *Adelges tsugae*								
Defoliation								
CT	Oak/hickory	eastern hemlock	NA	NA	0	0	0	A systematic state-wide 10 mile grid survey of uninfested hemlock stands was conducted in the winter of 1994. The hemlock adelgid occurs in 147 of 169 towns in Connecticut. This is up from 131 towns in 1993 and 129 towns in 1992. Hemlock forest and urban hemlock stands have a range of newly infested to 100% mortality, often within each state, certainly within each county. Some signs of recovery have been seen occassionally on hemlocks where the adelgid has been treated. Six nurseries shipped hemlock trees to Maine, new Hampshire and Vermont, states that have regulations for Hemlock woolly adelgid, Adelges tsugae. Our inspectors observed 42 pesticide treatments and issued phytosanitary certificates to cover 2, 010 plants in these shipments.
	Subtotal for Defoliation :				0	0	0	
Discoloration								
WV	White/red/jack pine	hemlock	NA	NA	0	197	0	Third year of survey. No new county finds. Still in 7 counties. Found new sites in previously considered infested counties that are reported below. Reported in long/lat not UTM. Generally finding infestations expanding in areas adjacent to first noted infestations.
	Subtotal for Discoloration :				0	197	0	
Healthy								
ME	Eastern spruce/fir	eastern hemlock	NA	NA	0	0	0	None found in Maine
NY	Oak/hickory	eastern hemlock	NA	NA	0	40	0	Survey to locate hemlock woolly adelgid.
NY	Maple/beech/birch	eastern hemlock	NA	NA	0	50	0	Attempt to detect hemlock woolly adelgid in counties where it is not known or to find it in regions of counties where it has not been observed. Attempts are made to see symptomatic trees or ones with egg sacs.
VT	White/red/jack pine	hemlock	NA	NA	0	0	0	No hemlock woolly adelgids observed since 1991. Two surveys conducted in 1994 in Windsor County.
	Subtotal for Healthy :				0	90	0	
Mortality								
NY	Urban/ornamental	eastern hemlock	NA	NA	0	0	0	
	Subtotal for Mortality :				0	0	0	
Present but no Damage								
MA	Urban/ornamental	eastern hemlock	NA	NA	2	0	0	2 new infestations located, 1 in Seekonk-Bristol Cty (cty has been reported as infested) and 1 in Northampton, Hampshire Cty (New County infested) Also had reported infestation in Berkshire and Middlesex Counties but were unable to confirm infestations

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
MD	Maple/beech/birch	eastern hemlock	NA	NA	0	0	0	Counties reported continue to have HWA present but no mortality in native stands has been seen. Mortality may be occurring in ornamental hemlocks in suburban Washington and Baltimore
RI	White/red/jack pine	eastern hemlock	NA	NA	0	0	0	Although the adelgid has been found Stateweide, the insect has now been found in natural stands in Northwestern Rhode Island. Previously, adelgid was only found on scattered ornamentals and yard trees. No evidence of mortality has been detected.
	Subtotal for Present but no Damage :				**2**	**0**	**0**	
	Subtotal for hemlock woolly adelgid :				**2**	**287**	**0**	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
herbicides								
Dieback/decline								
IO	Oak/hickory	white oak	bur oak	shagbark hickory	100	0	0	Individual county acreages not determined. Acreage of damage assigned to Grundy County (100 acres).
		Subtotal for Dieback/decline :			100	0	0	
		Subtotal for herbicides :			100	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
hickory bark beetle							
Scolytus quadrispinosus							
Mortality							
OH	Oak/hickory	hickories	NA NA	0	0	0	reported by Bartlett
		Subtotal for Mortality :		0	0	0	
		Subtotal for hickory bark beetle :		0	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
honeylocust pod gall							
Defoliation							
NY	Urban/ornamental	honeylocust	NA	NA	0	0	0
		Subtotal for Defoliation :			0	0	0
		Subtotal for honeylocust pod gall :			0	0	0

ice/snow

Broken or Dead

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
DE	Oak/pine	white oak	loblolly pine	other hardwoods	25417	0	0	
DE	Oak/hickory	oaks	yellow-poplar	other hardwoods	49036	0	0	A series of ice storms slammed into Delaware from February 8-18, 1994. Kent and Sussex counties were hit particularly hard, with both Governor Carper and President Clinton declaring the counties a natural disaster. Ice accumulation was computed for a lineal foot branch of loblolly pine and weighed 14 pounds. The branches that accumulated on the forest floor now represent a severe wildfire threat. Fuel loads average 3-6 vertical feet across damaged areas. Salvage operations have been implemented wherever feasible; although most tracts will be left 'as is' due to a swollen forest products market.
DE	Loblolly/shortleaf pine	loblolly pine	NA	NA	34180	0	0	
IO	Urban/ornamental	siberian elm	silver maple	green ash	0	6520	0	Individual county acres not determined. Scott County assigned 6520 trees of damage.
MD	Oak/hickory	yellow-poplar	Virginia pine	white oak	5800	0	0	A February ice storm caused scattered branch breakage, top breakage, main stem damage and trees being uprooted or bent over. A number of different species were affected:Yellow poplars, pines, oaks, and sweet gum in a variety of different forest types.
NY	Plantation	Scotch pine	white pine	Jack pine	1000	0	0	
NY	Urban/ornamental	misc. hardwoods	misc. softwoods	NA	0	0	0	Heavy wet snow in early December was followed by an accumulation of snow. The heavy snow broke branches. Many inquiries received by foresters on tree care needs following damage.
OH	Oak/pine	Virginia pine	shortleaf pine	NA	500	0	0	salvage impossible due to difficult access, sporadic nature of damage and low value damage at Shade River State Forest reported by Serbonich
				Subtotal for Broken or Dead :	115933	6520	0	
				Subtotal for ice/snow :	115933	6520	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
introduced pine sawfly							
Diprion similis							
Defoliation							
ME	White/red/jack pine	eastern white pine	NA	600	0	0	Populations and defoliation were still light but had increased noticeably from 1993 levels. Overwintering populations indicate possible further increases in 1995.
OH	White/red/jack pine	white pine	NA	15	0	0	reported by Crocker
		Subtotal for Defoliation :		615	0	0	
		Subtotal for introduced pine sawfly :		615	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
jack pine budworm							
Choristoneura pinus							
Defoliation							
MI	White/red/jack pine	Jack pine	NA	NA	5200	0	0	Budworm populations collapsing throughout Upper Peninsula.
MN	White/red/jack pine	Jack pine	NA	NA	46930	0	0	Populations peaked in 1993, lingering populations caused light defoliation.
WI	White/red/jack pine	Jack pine	NA	NA	60620	0	0	Building populations detected in Wadena County. The surveys for jack pine budworm were a combination of aerial and ground surveys. The population of this insect decreased statewide from 1993. The early larval survey indicated a potential ofr high damaging populations in Adams, Juneau, and Wood counties. The late larval survey found low numbers of maturing larvae and small, poorly developed third and fourth instar larvae not feeding, with many dead individuals present on branch samples. Light defoliation occurred on scattered small acreages east and southwest of Adams/Friendship, Adams County. The budworm populaitons collapsed in Adams, Juneau, Portage, and Wood counties. A new outbreak occurred in Vilas County; heavy defoliation occurred on 760 acres and light defoliation on 500 acres. The population of jack pine budworm declined in northwest Wisconsin with only 47,000 acres of moderate defoliation. The only significant defoliation occurred on the Washburn District of the Chequamegan National Forest. In Western Wisconsin, Eau Claire, Jackson, and Monroe counties, populations remained high according to egg mass surveys. New defoliation was difficult to detect as the insects remained in previously affected areas where trees were already discolored.
Subtotal for Defoliation :					112750	0	0	
Subtotal for jack pine budworm :					112750	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
Japanese barberry							
Nuisance							
NY	Oak/hickory	humans	NA NA	0	1	0	Gary Ives gave Mike Birmingham an article on Japanese barbarry asking the question: is it a pest in the forest?
		Subtotal for Nuisance :		0	1	0	
		Subtotal for Japanese barberry :		0	1	0	

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
Japanese beetle *Popillia japonica*								
Defoliation								
OH	Urban/ornamental	bald cypress	English oak	NA	0	60	0	reported by Schmenk
		Subtotal for Defoliation :			0	60	0	
		Subtotal for Japanese beetle :			0	60	0	

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
lace bugs *Corythucha sp.*								
Discoloration								
NY	Urban/ornamental	black cherry	NA	NA	0	0	0	
		Subtotal for Discoloration :			0	0	0	
		Subtotal for lace bugs :			0	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
Larch Sawfly *Pristiphora erichsonii*							
Defoliation							
MA	White/red/jack pine	European larch	NA	208	0	0	Defoliation figures calculated by GIS
ME	Eastern spruce/fir	larch	NA	0	0	0	No infestations reported but scattered larval colonies noted more often in 1994 than in 1993.
		Subtotal for Defoliation :		208	0	0	
		Subtotal for Larch Sawfly :		208	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
large aspen tortrix							
Choristoneura conflictana							
Present but no Damage							
ME	Aspen/birch	quaking aspen	NA	NA	0	0	0	No defoliation by large aspen tortrix was detected with either ground or aerial surveys in 1994. The 900 acres defoliated by this pest in 1993 did not have significant larval populations in 1994 and no other infested areas were found.
Subtotal for Present but no Damage :					0	0	0	
Subtotal for large aspen tortrix :					0	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
leaf spot of mountain laurel							
Discoloration							
NY	Urban/ornamental	mountain laurel	NA	NA	0	0	0
		Subtotal for Discoloration :			0	0	0
		Subtotal for leaf spot of mountain laurel :			0	0	0

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
Leucostoma canker							
Dieback/decline							
PA	Urban/ornamental	blue spruce	NA	NA	0	0	1
		Subtotal for Dieback/decline :			0	0	1
		Subtotal for Leucostoma canker :			0	0	1

Sta te	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
lightning							
Mortality							
NY	Oak/pine	eastern white pine	NA	0	0	0	Wants field diagnosis to confirm lightening and to explain why trees dying in vicinity of lightening strike.
	Subtotal for Mortality :			0	0	0	
	Subtotal for lightning :			0	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
locust leafminer								
Odontota dorsalis								
Defoliation								
PA	Oak/hickory	black locust	NA	NA	2101	0	0	
WV	Oak/hickory	black locust	NA	NA	0	0	0	Statewide at moderate to heavy levels. Particularly noticeable in the Northern and Eastern panhandles.
				Subtotal for Defoliation :	2101	0	0	
				Subtotal for locust leafminer :	2101	0	0	

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
Lomographa glomeraria								
Present but no Damage								
PA	Maple/beech/birch	sugar maple	beech	red oak	10	0	0	
Subtotal for Present but no Damage :					10	0	0	
Subtotal for Lomographa glomeraria :					10	0	0	

State	Forest Type	Hosts			Acres	Trees	Tap Catch	Comments
looper complex								
defoliation								
WV	Oak/hickory	oaks	other hardwoods	NA	6612	0	0	The looper complex of 1994 was comprised mainly of half-wing geometer (Phigalea titea), fall cankerworm (Alsophila pometaria), linden looper (Erannis tiliaria) and spring cankerworm (Paleacrita vernata). This is the third year for looper defoliation in most of the state, except in the Northern Panhandle.
				Subtotal for defoliation :	6612	0	0	
				Subtotal for looper complex :	6612	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
maple anthracnose								
Mortality								
PA	Maple/beech/birch	sugar maple	NA	NA	10	10100	0	Severe seedling mortality observed on 1 and 2 year old seedlings. Fungi observed: Cytospora, Gleosporium, Collectotrichum, other(s). Located in area south of Patterson park and throughout the area.
				Subtotal for Mortality :	10	10100	0	
				Subtotal for maple anthracnose :	10	10100	0	

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State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
maple decline							
Healthy							
ME	Maple/beech/birch	sugar maple	NA	0	0	0	Data from the north American maple project plots indicate the sugar maple of Maine are healthy.
Subtotal for Healthy :				0	0	0	
Subtotal for maple decline :				0	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
maple leaf cutter							
Defoliation							
VT	Maple/beech/birch	sugar maple	NA	NA	160	0	0	Damage down from 2900 acres in 1993.
		Subtotal for Defoliation :			**160**	**0**	**0**	
		Subtotal for maple leaf cutter :			**160**	**0**	**0**	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments

maple petiole borer

Caulocampus acericaulis

Defoliation

OH	Urban/ornamental	sugar maple	NA	NA	0	0	0	
OH	Maple/beech/birch	sugar maple		NA	0	0	0	reported by Wilthew
			Subtotal for Defoliation :		0	0	0	
			Subtotal for maple petiole borer :		0	0	0	

Stat	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
maple tar spot *Rhytisma acerinum*								
Defoliation								
MA	Urban/ornamental	Norway maple	NA	NA	0	0	0	Town of Lee, Stockbridge,Lenox, North Adams, Adams, Williamstown, Cheshire
NY	Urban/ornamental	Norway maple	NA	NA	0	0	0	
		Subtotal for Defoliation :			0	0	0	
Discoloration								
NY	Urban/ornamental	sugar maple	NA	NA	0	0	0	Tar spot observed by homeowner on trees in community where he lives and nearby communities. Disease caused by large tar spot, Rhytisma ascerinum.
		Subtotal for Discoloration :			0	0	0	
		Subtotal for maple tar spot :			0	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
maple webworm *Tetralopha asperatella*							
Defoliation							
PA	Maple/beech/birch	sugar maple	NA	NA	0	1	0
		Subtotal for Defoliation :			0	1	0
		Subtotal for maple webworm :			0	1	0

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
mealybug							
Pseudococcidae							
Present but no Damage							
NY	Urban/ornamental	European alder	NA	NA	0	0	0
Subtotal for Present but no Damage :					0	0	0
Subtotal for mealybug :					0	0	0

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
mechanical							
Dieback/Decline							
NY	Urban/ornamental	eastern white pine	NA	0	4	0	Carl Wiedemann, Regional Forest Manager, requested help on diagnosing the cause of eastern white pine decline in Niskayuna.
		Subtotal for Dieback/Decline :		0	4	0	
		Subtotal for mechanical :		0	4	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
mice or voles								
Other								
ME	Urban/ornamental	juniper	sugar maple	Pyrus xmalus	0	0	0	Most vole damage was seen on home grounds and orchards but some forest plantations were affected.
			Subtotal for Other :		0	0	0	
			Subtotal for mice or voles :		0	0	0	

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
multifolia rose								
nuisance								
NY	Oak/hickory	humans	NA	NA	0	1	0	Issue arose over the nuisance the plant causes to users of the forest.
				Subtotal for nuisance :	0	1	0	
				Subtotal for multifolia rose :	0	1	0	

State	Forest Ty pe	----------Hosts----------		Acres	Trees	Trap Catch	Comments

Nantucket Pine Tip Moth

Rhyacionia frustrana

efoliation

MA	White/red/jack pine	Pitch Pine	NA	NA	2130	0	0	All acreage figured calculated by GIS
			Subtotal for Defoliation :		2130	0	0	
			Subtotal for Nantucket Pine Tip Moth :		2130	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
northern cedar bark beetle								
Phloeosinus canadensis								
Dieback/Decline								
OH	Urban/ornamental	northern white cedar	NA	NA	0	75	0	Maxfield, Collins, Siam &Schmenk extensive damage to widbreaks reported by:
		Subtotal for Dieback/Decline :			0	75	0	
Mortality								
OH	Urban/ornamental	northern white cedar	NA	NA	0	35	0	reported by Siam & C. Smith
		Subtotal for Mortality :			0	35	0	
		Subtotal for northern cedar bark beetle :			0	110	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
northern pine weevil								
Pissodes approximatus								
Present but no Damage								
NY	Oak/pine	Scotch pine	NA	NA	0	1	0	Specimen sent by John Solan, Jr., Belmont to me for identification. I sent the wood block to Rick Hoebeke who i.d. the insect damage.
Subtotal for Present but no Damage :					0	1	0	
Subtotal for northern pine weevil :					0	1	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
oak anthracnose							
Discula quercina							
Defoliation							
OH	Urban/ornamental	white oak	NA	NA	0	2	0
		Subtotal for Defoliation :			0	2	0
		Subtotal for oak anthracnose :			0	2	0

State	Forest Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
oak leafroller							
Archips semiferana							
Defoliation							
PA	Oak/hickory	oaks	NA	NA	294	0	0
		Subtotal for Defoliation :			294	0	0
		Subtotal for oak leafroller :			294	0	0

State	Forest Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
oak leaftier							
Croesia semipurpurana							
healthy							
NH	Oak/hickory	Red Oak	NA	NA	0	0	0	Examined red oak in Winchester, Hinsdale, and Fitzwilliam, Cheshire County. There was no evidence of oak leaftier. No pheromone trapping in 1994. Branch samples were collected from 12 established plots and no OLT eggs were found. It has been six years since the last outbreak of this insect.
			Subtotal for healthy :		0	0	0	
			Subtotal for oak leaftier :		0	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
oak skeletonizer							
Bucculatrix ainsliella							
Defoliation							
NY	Urban/ornamental	black oak	NA	NA	0	0	0
		Subtotal for Defoliation :			0	0	0
		Subtotal for oak skeletonizer :			0	0	0

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
oak wilt								
Ceratocystis fagacearum								
Mortality								
IO	Oak/hickory	black oak	red oak	white oak	8800	0	0	Also found on bur oak. Individual county acreages not determined--8,800 acres assigned to Worth County.
WI	Oak/hickory	oaks	NA	NA	0	0	0	The public has become more aware and interested in this disease, especially in the urban areas. This is due largely to a public information campaign by the Wisconsin Garden Club Federation. The counties listed below outline the current distribution of oak wilt. Efforts to put statewide guidelines in place regarding the timing of oak pruning and cutting are underway.
WY	Oak/hickory	red oak	NA	NA	0	93	0	
		Subtotal for Mortality :			**8800**	**93**	**0**	
		Subtotal for oak wilt :			**8800**	**93**	**0**	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
Odontota dorsalis								
Defoliation								
PA	Urban/ornamental	black locust	NA	NA	3000	0	0	02-94-99, 04-94-99, 06-94-98. Observed on thousands of acres on mixture pole/sawtimber. Damage to host: heavy.
				Subtotal for Defoliation :	3000	0	0	
				Subtotal for Odontota dorsalis :	3000	0	0	

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
oilnut shrub								
Pyrularia pubera								
eback/Decline								
WV	Nursery	Balsam fir	Frasier fir	NA	0	2500	0	First report of oilnut parasitizing fir trees and causing damage. The landowner is attempting control using Round-up.
		Subtotal for Dieback/Decline :			0	2500	0	
		Subtotal for oilnut shrub :			0	2500	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
orange-striped oakworm							
Anisota senatoria							
Defoliation							
PA	Oak/hickory	oaks	NA	NA	13866	0	0
		Subtotal for Defoliation :			13866	0	0
		Subtotal for orange-striped oakworm :			13866	0	0

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
Orthosia rubescens								
Defoliation								
PA	Maple/beech/birch	black cherry	yellow-poplar	maples	7	0	0	
		Subtotal for Defoliation :			7	0	0	
		Subtotal for Orthosia rubescens :			7	0	0	

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ozone								
Discoloration								
VT	Maple/beech/birch	black cherry	white ash		0	0	0	11 out of 14 sites statewide had biodindicator plants with ozone injury August. Severity of injury ranged from 0 - 100%.
				Subtotal for Discoloration :	0	0	0	
				Subtotal for ozone :	0	0	0	

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State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
painted hickory borer								
Other								
PA	Oak/hickory	hickories	NA	NA	0	10	0	
				Subtotal for Other :	0	10	0	
				Subtotal for painted hickory borer :	0	10	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
pear thrips *Taeniothrips inconsequens*							
Defoliation							
PA	Maple/beech/birch	sugar maple	NA NA	5	0	0	
		Subtotal for Defoliation :		5	0	0	
Discoloration							
OH	Maple/beech/birch	sugar maple	NA NA	20	0	0	state-wide detection survey
		Subtotal for Discoloration :		20	0	0	
Healthy							
ME	Maple/beech/birch	sugar maple	NA NA	0	0	0	Only scattered individuals and no associated damage observed in 1994.
		Subtotal for Healthy :		0	0	0	
		Subtotal for pear thrips :		25	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
phytophthora root rot								
Phytophthora cinnamomi								
Mortality								
PA	White/red/jack pine	rhododendron maximum	NA	NA	10	0	0	
		Subtotal for Mortality :			10	0	0	
		Subtotal for phytophthora root rot :			10	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
pine bark adelgid							
Pineus strobi							
Mortality							
OH	White/red/jack pine	white pine	NA NA	110	0	0	Other damage causing agent present was bark beetle.
		Subtotal for Mortality :		110	0	0	
		Subtotal for pine bark adelgid :		110	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
pine budworm							
Defoliation							
PA	White/red/jack pine	red pine	NA	1526	0	0	
		Subtotal for Defoliation :		1526	0	0	
		Subtotal for pine budworm :		1526	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
PINE FALSE WEBWORM								
Acantholyda erythrocephala								
DEFOLIATION								
NY	White/red/jack pine	pines	NA	NA	0	28000	0	
NY	Plantation	Scotch pine	Austrian pine	NA	2	500	0	Surveys are conducted by regional forestry staff and reports of the survey results are submitted to the Bureau of Forest Resource Management. Both ground and aerial surveys are conducted each year to determine the locations of tree damage and degree of damage. Year to year comparisons of defoliation and tree mortality are made to determine changes in the rates of defoliation, locations of damage, and degrees of damage. Ground surveys often follow aerial surveys to determine identity of the causal agent of defoliation.
NY	White/red/jack pine	white pine	scotch pine	red pine	390000	0	0	Surveys are conducted by regional forestry staff and reports of the survey results are submitted to the Bureau of Forest Resource Management. Both ground and aerial surveys are conducted each year to determine the locations of tree damage and degree of damage. Year to year comparisons of defoliation and tree mortality are made to determine changes in the rates of defoliation, locations of damage, and degrees of damage. Ground surveys often follow aerial surveys to determine identity of the causal agent of defoliation.
		Subtotal for DEFOLIATION :			390002	28500	0	
		Subtotal for PINE FALSE WEBWORM :			390002	28500	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
pine gall weevil *Podapion gallicola*							
canker							
NY	Plantation	red pine	NA	100	0	0	As pine plantations age, they become more susceptable to the pine gall weevil.
Subtotal for canker :				100	0	0	
Stem Defect							
NY	Plantation	red pine	NA	2	0	0	Request by Pete Gregory assistant park manager for Saratoga Park Region to inspect red pine at Thacher State Park.
Subtotal for Stem Defect :				2	0	0	
Subtotal for pine gall weevil :				102	0	0	

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State	Forest Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
Pine Looper							
Defoliation							
MA	White/red/jack pine	Pitch Pine	NA	2865	0	0	Acreage figures calculated by GIS
		Subtotal for Defoliation :		**2865**	**0**	**0**	
Mortality							
MA	White/red/jack pine	pitch pine	NA	1014	0	0	Acreage figures caluclated by GIS
		Subtotal for Mortality :		**1014**	**0**	**0**	
		Subtotal for Pine Looper :		**3879**	**0**	**0**	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
pine needleminer							
Exoteleia pinifoliella							
Defoliation							
PA	Loblolly/shortleaf pine	Virginia pine	NA	1600	0	0	Other defoliator present was pine tip moth.
		Subtotal for Defoliation :		1600	0	0	
		Subtotal for pine needleminer :		1600	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
pine shoot beetle *Tomicus piniperda*								
Damaged foliage or shoots								
IL	Nursery	scotch pine	NA	NA	0	0	0	In 1992, two counties were infested, in 1993 there were 7, and in 1994 there were 10 infested.
Subtotal for Damaged foliage or shoots :					0	0	0	
Healthy								
CT	Plantation	conifers	NA	NA	0	0	0	A total of 1830 acres of Christmas Tree farms were surveyed statewide in Connecticut for Pine shoot beetle, Tomicus piniperda during 1994. Pine shoot beetles were not found. This acreage represents approximately 20, 155 trees, about 1.5% of Christmas trees in our state. In addition we examined Christmas trees from 106 dealers, in December of 1993. These trees were shipped in from out of state and were being sold in all eight counties in Connecticut. Special attention was given to trees from states with pine shoot beetle quarantines. Although there was a great deal of Scot's pine, from quarantined states, none of the shipments were from quarantined counties and pine shoot beetle was not found.
Subtotal for Healthy :					0	0	0	
Subtotal for pine shoot beetle :					0	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
pine tussock moth *Parorgyia grisefacta*								
Defoliation								
WI	White/red/jack pine	Jack pine	NA	NA	35360	0	0	Moderate defoliation present on about 35,000 acres in douglas County and about 500 acres in Bayfield County. Expect a substantial decline in acres defoliated in 1995 by this insect.
				Subtotal for Defoliation :	35360	0	0	
				Subtotal for pine tussock moth :	35360	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
pine-pine gall rust								
Stem Defect								
NY	Plantation	scotch pine	NA	NA	42	0	0	Billy Morris, a DEC forester working out of the Bath office referred me (Mike Birmingham) to a plantation of white spruce and some minor plantings of Scotch pine. Some of the Scotch pine had severe branch mortality. Large, dried up galls appeared on the dead branches.
				Subtotal for Stem Defect :	42	0	0	
				Subtotal for pine-pine gall rust :	42	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
pitch mass borer							
Resinosis or gummosis							
ME	Urban/ornamental	Colorado blue spruce	eastern white pine NA	0	0		Damage from 1993 and 1994 much more pronounced than previously noted from this occasional pest especially on Colorado blue spruce.
Subtotal for Resinosis or gummosis :				0	0		
Subtotal for pitch mass borer :				0	0		

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
red turpentine beetle							
Dendroctonus valens							
Present but no Damage							
NY	White/red/jack pine	red pine	NA	NA	0	1	0
Subtotal for Present but no Damage :					0	1	0
Subtotal for red turpentine beetle :					0	1	0

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
redheaded pine sawfly *Neodiprion lecontei*								
Defoliation								
MI	White/red/jack pine	red pine	NA	NA	20	0	0	Few reported problems. Populations down from recent years.
NY	Urban/ornamental	pitch pine	NA	NA	0	0	0	
		Subtotal for Defoliation :			20	0	0	
		Subtotal for redheaded pine sawfly :			20	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
saddled prominent							
Heterocampa guttivitta							
Defoliation							
VT	Maple/beech/birch	sugar maple	NA	NA	0	0	0	Occasional larvae and trace feeding observed in Orange county
		Subtotal for Defoliation :			0	0	0	
		Subtotal for saddled prominent :			0	0	0	

State	Forest Type	Hosts				Acres	Trees	Trap Catch	Comments
salt									
Damaged foliage or shoots									
ME	White/red/jack pine	eastern hemlock	white pine	balsam fir		0	0	0	Drift of atomized salt water droplets injured foliage of conifers near roadsides, and salt water runoff from roadways puddled in many swampy areas causing conifer mortality.
Subtotal for Damaged foliage or shoots :						0	0	0	
Subtotal for salt :						0	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
Saratoga spittlebug *Aphrophora saratogensis*								
Damaged foliage or shoots								
ME	White/red/jack pine	red pine	NA	NA	50	0	0	Continues to damage plantations of red pine in eastern Maine.
Subtotal for Damaged foliage or shoots :					50	0	0	
Dieback/Decline								
MI	White/red/jack pine	red pine	NA	NA	1493	0	0	Saratoga spittlebug populations have been on a gradual increase since 1992 in plantation red pine. Because of improved planning and site preparation, damage is not expected to be widespread, and should be limited to older plantations with moderate to heavy sweetfern competition. Where severity is listed as "NONE", nymphal populations are currently below threshhold, and "ACRES" indicates acres that were risk-rated.
Subtotal for Dieback/Decline :					1493	0	0	
Subtotal for Saratoga spittlebug :					1543	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
satin moth *Leucoma salicis*								
Defoliation								
ME	Aspen/birch	quaking aspen	bigtooth aspen	NA	1600	0	0	Defoliation by satin moth increased to 1600 acres in 1994. The defoliated area in 1994 was somewhat as larger than the 1993 area and about half as large as the 1992 area. The current defoliation occurred in the same general area as in 1993 and 1992. The intensity of the defoliation in the mapped area declined in 1994 compared to 1993. (Map Attached)
			Subtotal for Defoliation :		1600	0	0	
			Subtotal for satin moth :		1600	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
scleroderris canker								
Gremmeniella abietina								
Dieback/Decline								
VT	Plantation	red pine	scots pine	NA	0	0	0	Not found in any new towns for the eighth consecutive year. 161 plantations bordering the quarantine zone were inspected, but the disease was not found in any. The total number of plantations known to be infected is 126, representing 997 acres.
Subtotal for Dieback/Decline :					0	0	0	
Discoloration								
MI	White/red/jack pine	Jack pine	NA	NA	300	0	0	Few scattered flagged lower whorl branches. Disease has returned to usuall low level infections after major flare-up in 1992.
Subtotal for Discoloration :					300	0	0	
Subtotal for scleroderris canker :					300	0	0	

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State	Forest Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
Senescense							
Defoliation							
NY	Urban/ornamental	Autumn olive	NA	NA	0	0	0
		Subtotal for Defoliation :			0	0	0
		Subtotal for Senescense :			0	0	0

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
Sirococcus tip blight								
Sirococcus conigenus								
Damaged foliage or shoots								
ME	Eastern spruce/fir	larch	NA	NA	0	0	0	In late June shoots of eastern larch exhibited tip dieback. We confirmed the cause to be Sirococcus conigenus. We do not believe this to be a new disease here because we have observed similar symptoms in other years, but this is the first time we have found diagnostic fruiting bodies.
	Subtotal for Damaged foliage or shoots :				0	0	0	
Dieback/Decline								
WI	White/red/jack pine	red pine	NA	NA	0	0	0	Infected overstory red pine on the Northern Highland/American Legion state forest were cut to reduce disease incidence. The clearcut caused controversy as the area cut was in a "Wild" area. The USDA Forest Service set up impact plots on the Northern Highland to estimate long term impact of this disease on red pine plantations. The counties listed below represent the current distribution of red pine shoot blight.
	Subtotal for Dieback/Decline :				0	0	0	
Mortality								
NY	Oak/hickory	butternut	NA	NA	0	0	0	
	Subtotal for Mortality :				0	0	0	
	Subtotal for Sirococcus tip blight :				0	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
southern pine beetle								
Dendroctonus frontalis								
Mortality								
MD	Loblolly/shortleaf pine	loblolly pine	NA	NA	0	0	0	Two small inactive spots, population crashed after 3,000 acres of activity in 1993
WV	Oak/pine	Virginia pine	pitch pine	NA	3379	0	0	Aerially surveyed in August. Checked quads that reported additional spb activity. Figures reflect 93-94 combined mortality (they were not separated out). SPB mortality increasing. Plan on surveying aerially over entire Eastern Panhandle in 1995 if funds allow.
				Subtotal for Mortality :	3379	0	0	
				Subtotal for southern pine beetle :	3379	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
spring cankerworm								
Paleacrita vernata								
Defoliation								
OH	Urban/ornamental	swamp white oak	red oak	NA	0	4	0	reported by Fair
PA	Oak/hickory	red maple	chestnut oak	white oak	200	0	0	
			Subtotal for Defoliation :		200	4	0	
			Subtotal for spring cankerworm :		200	4	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
spring hemlock looper							
Dieback/Decline							
VT	White/red/jack pine	eastern hemlock	NA	200	0	0	Tree condition is improving in monitoring plots established to assess the impact of defoliation in 1990-91.
	Subtotal for Dieback/Decline :			200	0	0	
	Subtotal for spring hemlock looper :			200	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
spruce beetle								
Dendroctonus rufipennis								
Mortality								
ME	Eastern spruce/fir	white spruce	red spruce	NA	0	0	0	Aerial and ground surveys did not show any significant incidence of new spruce beetle attack in 1994. Coastal islands in Hancock County were new attack was observed in 1993, did not show any newly attacked trees in 1994.
				Subtotal for Mortality :	0	0	0	
				Subtotal for spruce beetle :	0	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
spruce budworm								
Choristoneura fumiferana								
Defoliation								
MN	Eastern spruce/fir	balsam fir	white spruce	NA	198490	0	0	These defoliated acreages are preliminary, as we do not have all data from USFS, S&PF, St. Paul yet. SBW continuing trend set last year.
NY	Plantation	white spruce	NA	NA	42	0	0	Billy Morris asked me (Mike Birmingham) to determine the cause of defoliation to white spruces in Yates and Ontario Counties. I inspected two properties designated by Bill. Both properties are infested with the same insect. Digging beneath the spruces failed to produce any sawfly pupae. I doubt sawflies are a factor in the defoliation.
		Subtotal for Defoliation :			198532	0	0	
Healthy								
NH	Spruce /Fir	balsam fir	NA	NA	0	0	0	Pheromone traps put out in Coos county. No SBW caught and no defoliation in 1994. This insect has been at negligible levels since 1984.
		Subtotal for Healthy :			0	0	0	
Present but no Damage								
ME	Eastern spruce/fir	balsam fir	spruces	NA	0	0	1	SBW □The MFS did not detect any significant population of spruce budworm in Maine in 1994. Budworm has not caused any significant defoliation in Maine since 1989. Budworm larvae were very rare in Forest Insect Survey samples again in 1994. □Budworm moth activity was monitored using the MFS statewide network of 24 light traps. Moth catch remained very low as it has been for several years. The total number of moths caught was half the number of moths caught in 1993. Moths were recorded from only 5 of 24 traps in 1994 compared to 11 traps that caught moths in 1993. □Moth catch in pheromone traps was also very low in 1994 and lower than in 1993. One location in Franklin (Hancock County) had an average of 37 moths per trap but all other locations had less than 4 moths per trap. Of the 24 locations trapped, moths were caught at 12 and only 6 locations had more than one moth per trap. In 1993 12 of 27 trap locations had more than one moth per trap and five location had more than 10 moths per trap.
VT	Eastern spruce/fir	balsam fir	NA	NA	0	0	10	No defoliation detected. Average trap catch very similar to 1993.
		Subtotal for Present but no Damage :			0	0	11	
		Subtotal for spruce budworm :			198532	0	11	

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
squirrels								
Mortality								
OH	Oak/hickory	sugar maple	NA	NA	4	0	0	confirm with phsical evidence. Looked like porcupine damage, but could not reported by Fair.
			Subtotal for Mortality :		4	0	0	
			Subtotal for squirrels :		4	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
Stillwell's syndrome							
Mortality							
ME	Eastern spruce/fir	balsam fir	NA	0	0	0	The occurrence of this condition seemed unchanged from 1993. No new concentrations of red fir were found in any of the affected portions of the state even though new symptomatic trees appear annually. Rates of occurrence remain generally low.
			Subtotal for Mortality :	0	0	0	
			Subtotal for Stillwell's syndrome :	0	0	0	

State	Forest Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
storm damage							
Broken or dead							
PA	Oak/hickory	oaks	NA	NA	1242	0	0	Storm damage caused by hail.
		Subtotal for Broken or dead :			1242	0	0	
		Subtotal for storm damage :			1242	0	0	

State	Forest Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
sugar maple anthracnose							
Defoliation							
PA	Maple/beech/birch	sugar maple	NA	532625	0	0	
		Subtotal for Defoliation :		532625	0	0	
		Subtotal for sugar maple anthracnose :		532625	0	0	

State	Forest Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
sugar maple borer *Glycobius speciosus*							
Healthy							
NY	Maple/beech/birch	sugar maple	NA	NA	0	0	
		Subtotal for Healthy :			0	0	
		Subtotal for sugar maple borer :			0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
sycamore anthracnose								
Apiognomonia veneta								
Defoliation								
OH	Elm/ash/red maple	sycamore	NA	NA	0	0	0	reported by Serbonich, Bunker, Hodgson, Richards & Bunker
OH	Urban/ornamental	sycamore	NA	NA	0	0	0	reported by Richards, Bunker, Crocker, Serbonich & Hodgson
PA	Urban/ornamental	sycamore	NA	NA	0	11000	0	
WY	Elm/ash/red maple	sycamore	NA	NA	0	0	0	Sycamore anthracnose disease was widespread and moderate to severe on sycamores statewide.
				Subtotal for Defoliation :	0	11000	0	
				Subtotal for sycamore anthracnose :	0	11000	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
thrips							
Defoliation							
VT	Maple/beech/birch	sugar maple	NA	NA	0	0	0	Soil counts of pear thrips over winter of 93-94 and bud counts in spring of 1994 were lowest since data has been collected. Only light damage observed.
		Subtotal for Defoliation :			0	0	0	
		Subtotal for thrips :			0	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
twolined chestnut borers								
Agrilus bilineatus								
Dieback/decline								
IO	Oak/hickory	bur oak	white oak	NA	220	0	0	Individual county acres not determined. Worth County assigned 220 acres of damage.
MI	Oak/pine	northern pin oak	NA	NA	1000	0	0	Tree mortality and declines have subsided, but are still occurring at low levels.
Subtotal for Dieback/decline :					1220	0	0	
Subtotal for twolined chestnut borers :					1220	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
unknown								
Dieback/Decline								
OH	Maple/beech/birch	yellow poplar	NA	NA	15	0	0	reported by Hodgson
PA	Oak/pine	white pine	NA	NA	6	0	0	Stand age 60 to 100 years, affected area exhibiting declilne, mortality, and stand thinning. Trees exhibiting branch dieback, epicormic bud release, witch's brooms, reduced growth increment, and spindlel-shaped cankers on twigs and small branches, shoot internodes appear stunted, needles exhibiting stunting, chlorosis, and deformation are evident but not abundant. Fallen stems appear to shatter in several piences when striking the ground. Affected area expanding to the north, up a slope and over the adjacent ridge. Area located west of Clarington along the Clarion River on Route 899.
	Subtotal for Dieback/Decline :				21	0	0	
Discoloration								
MA	Maple/beech/birch	Paper Birch	Gray Birch	NA	233	0	0	All acreage fingures calculated by GIS DCA probably Birch Leaf Miner
NY	Maple/beech/birch	sugar maple	red maple	NA	23500	0	0	Survey in response to many inquires from the public concerning maple trees exhibiting heavy marginal leaf scorch. The survey determined the extent and nature of the problem. Cause of damage may be related to cool, wet spring and late frosts. Botrytis blight present, but it may be secondary. Cooperative Extension agent also pursuing a cause of maple problem.
PA	Urban/ornamental	hemlock	NA	NA	0	20	0	
	Subtotal for Discoloration :				23733	20	0	
	Subtotal for unknown :				23754	20	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
variable oakleaf caterpillar								
Heterocampa manteo								
Defoliation								
ME	Maple/beech/birch	American beech	red oak	NA	220000	0	0	An aerial survey conducted in September showed heavy to severe defoliation of beech occurred on more than 220,000 acres in central Maine. Affected Counties were; Penobscot, Washington, Hancock, southern Aroostook, Somerset near Moosehead Lake, and parts of southern Piscataquis. Ground surveys of many of the defoliated areas revealed complete defoliation of beech and many apparently starving larvae even though other tree species in the stands had many leaves remaining. The 220,000 acres mapped in 1994 represented a substantial increase in size and intensity of the infestation compared to 1993. Damage from this insect had been showing a steady decline in acreage and severity until this unexpected resurgence. Only 45 acres of moderate defoliation had been mapped in 1993. Damage below the mapping threshold was seen in several portions of central Maine in 1993. Based on the 120,000 acres defoliated in 1988, we do not expect much tree mortality due to this defoliation. Defoliation occurs so late in the season that twigs and branches should not be damaged unless tree start to refoliate. Late season refoliation was not observed in 1994. We plan to evaluate some severely defoliated areas to see if any permanent damage was done to the trees. Beech is the only species that showed heavy defoliation. Red and sugar maples were not defoliated. Several other insect species were found in defoliated areas but most did not contributed significantly to the defoliation.
Subtotal for Defoliation :					220000	0	0	
Subtotal for variable oakleaf caterpillar :					220000	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
vein pocket gall							
Defoliation							
NY	Oak/pine	Scrub oak	NA	NA	0	0	0
		Subtotal for Defoliation :			0	0	0
		Subtotal for vein pocket gall :			0	0	0

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
verticillium wilt								
Verticilium albo-atrum								
Dieback/decline								
IO	Urban/ornamental	norway maple	NA	NA	0	90	0	Individual county acres not determined. Webster County assigned 90 trees of damage.
OH	Urban/ornamental	Norway maple	NA	NA	0	5	0	reported by Bartlett
Subtotal for Dieback/decline :					0	95	0	
Subtotal for verticillium wilt :					0	95	0	

State	Forest Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
walnut anthracnose							
Gnomonia leptostyla							
Defoliation							
NY	Oak/hickory	butternut	NA	NA	0	0	0
		Subtotal for Defoliation :			0	0	0
		Subtotal for walnut anthracnose :			0	0	0

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Cat ch	Comments
white pine aphid								
Cinara strobi								
Present but no Damage								
PA	Maple/beech/birch	white pine	NA	NA	20	0	0	
Subtotal for Present but no Damage :					20	0	0	
Subtotal for white pine aphid :					20	0	0	

State	Forest Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
white pine blister rust							
Cronartium ribicola							
Canker							
ME	White/red/jack pine	white pine	NA	0	0	0	This disease occurs statewide but we make attempts to control it through ribes eradication only in southern Maine. In 1994, pine was protected on 8,300 acres of land in the towns of Buckfield, Freeport, Lovell, North Berwick, Paris, Porter, Scarboro, Stow, and York.
			Subtotal for Canker :	0	0	0	
			Subtotal for white pine blister rust :	0	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
white pine cone beetle							
Conopthorus coniperda							
Other							
PA	Oak/pine	hemlock	NA	NA	3	0	0
		Subtotal for Other :			3	0	0
		Subtotal for white pine cone beetle :			3	0	0

State	Forest Type	----------Hosts----------		Acres	Trees	Trap Catch	Comments
white pine sawfly							
Neodiprion pinetum							
defoliation							
OH	White/red/jack pine	white pine	NA	NA	1	0	0	reported by Crocker
		Subtotal for defoliation :			1	0	0	
		Subtotal for white pine sawfly :			1	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
White Pine Weevil								
Pissodes strobi								
Dieback/Decline								
MI	White/red/jack pine	Jack pine	NA	NA	1350	0	0	White pine weevil is a perennial pest of young plantation jack pine in the northern Lower Peninsula. Repeated attacks reduce growth and affect tree form. Chemical controls are not cost effective.
NY	Urban/ornamental	eastern white pine	NA	NA	0	0	0	
		Subtotal for Dieback/Decline :			1350	0	0	
oss of apical dominance, dea								
ME	White/red/jack pine	white pine	spruces	NA	0	0	0	
		for Loss of apical dominance, dead terminal :			0	0	0	
		Subtotal for White Pine Weevil :			1350	0	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
whitemarked tussock moth							
Orgyia leucostigma							
Defoliation							
NY	Urban/ornamental	autumn olive	NA	NA	0	0	0
		Subtotal for Defoliation :			0	0	0
		Subtotal for whitemarked tussock moth :			0	0	0

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State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
wind/tornado								
Broken or dead								
IO	Oak/hickory	red oak	black oak	black walnut	240	0	0	Individual county acreages not determined. Damage of 240 acres assigned to Plymouth County.
OH	White/red/jack pine	white pine	NA	NA	134	0	0	damage at Zaleski State Forest resulting from 4/9/94 storm reported by Serbonich
				Subtotal for Broken or dead :	374	0	0	
				Subtotal for wind/tornado :	374	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
winter injury								
Dieback/decline								
IO	Elm/ash/red maple	black walnut	NA	NA	60	0	0	Individual county acreages not determined. Damage of 60 acres assigned to Fayette County.
PA	Oak/hickory	white oak	NA	NA	300	0	0	Eastern area specialist observed extensive dieback to previous year's growth on oak species along I-81 in Luzerne, Schuylkill and Lebanon counties. Most damage between Ravine and Hazleton, Pa. Related injury observed was herbicide damage and salt damage along roadway right-of-ways.
	Subtotal for Dieback/decline :				360	0	0	
Discoloration								
NY	White/red/jack pine	white pine	eastern hemlock	yews	0	1	0	Appears plants dried out from winter dehydration and deicing salts.
VT	Eastern spruce/fir	red spruce	NA	NA	160	0	0	Dieback has improved on plots established to monitor the impact of the widespread red spruce winter injury in 1993.
	Subtotal for Discoloration :				160	1	0	
Mortality								
NY	Plantation	red pine	NA	NA	5		0	Peter Gregory, a NYS Office, Park, Recreation, and Historic manager, asked Mike Birmingham to inspect red pine at the Boyd Thacher State Park. Red pine are reported to have discolored foliage or have died.
OH	Urban/ornamental	juniper	NA	NA	0	0	0	reported by Serbonich
OH	Elm/ash/red maple	sweetgum	NA	NA	0	0	0	reported by Serbonich
OH	Oak/hickory	dogwood	NA	NA	0	0	0	reported by serbonich
OH	Oak/hickory	sycamore	NA	NA	0	0	0	Serbonich reports widespread mortality and injury from extreme cold temperatures. Several species affected.
OH	Oak/hickory	yellow-poplar	NA	NA	15	0	0	Reported by Crocker & Grezlik
WI	Oak/hickory	black walnut	NA	NA	0	0	0	Extremely cold temperatures in January of 1994, caused mortality and dieback of black walnut throughout southwestern Wisconsin. The counties listed are the ones that reported injury. Symptoms included mortality, dieback, sprouting on the main stem and at the base. Affected trees were located in valley bottoms or in places where cold air drained and was trapped by landscape features. The most severe losses occurred in LaCrosse County where up to 80% of the walnut were injured in areas on the Coulee Experimental Forest.
	Subtotal for Mortality :				20	0	0	
	Subtotal for winter injury :				540	1	0	

State	Forest Type	Hosts		Acres	Trees	Trap Catch	Comments
winterkill							
Mortality							
MN	Oak/gum/cypress	walnut	NA	NA	600	0	0	Very unusual occurence of winterkill. Occurred on our best sites due to extremely low temperatures in January 1994.
		Subtotal for Mortality :			600	0	0	
		Subtotal for winterkill :			600	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
wood decay								
Dieback/Decline								
NY	Urban/ornamental	Norway maple	sugar maple	NA	0	0	0	
		Subtotal for Dieback/Decline :			0	0	0	
		Subtotal for wood decay :			0	0	0	

State	Forest Type	Hosts			Acres	Trees	Trap Catch	Comments
yellow poplar weevil								
Odontopus calceatus								
Defoliation								
NY	Urban/ornamental	sassafras	NA	NA	0	0	0	
OH	Oak/hickory	yellow poplar	NA	NA	0	0	0	reported by Crocker & Serbonich
WV	Oak/hickory	yellow-poplar	sassafras	magnolia	0	0	0	Damage was light to moderate statewide, except in the Eastern Panhandle where little yellow poplar grows.. Populations decreased from 1993's moderate to severe observations.
				Subtotal for Defoliation :	0	0	0	
				Subtotal for yellow poplar weevil :	0	0	0	

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
yellowheaded spruce sawfly								
Pikonema alaskensis								
Defoliation								
ME	Plantation	white spruce	red spruce	norway spruce	0	0	0	Population and damage continued at roughly 1993 levels. Same mortality was evident in roadside plantings along I95. Infestions were on scattered trees.
				Subtotal for Defoliation :	0	0	0	
				Subtotal for yellowheaded spruce sawfly :	0	0	0	

State	Forest Type	----------Hosts----------			Acres	Trees	Trap Catch	Comments
yellownecked caterpillar *Datana ministra*								
Defoliation								
OH	Urban/ornamental	Hawthorn	NA	NA	0	1	0	
				Subtotal for Defoliation :	0	1	0	
				Subtotal for yellownecked caterpillar :	0	1	0	